

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_7 ~ C1216XT-13LXXK-WDEX-TCY-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629_7_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 3/9/2018

[LUMCAT] C1216XT-13L-xxK-WD-EX-TCY-NL

[LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder

[OTHER] Internal Reflector, Wide Beam

[OTHER] No lens

[OTHER] 38.0 Degree Beam Angle

[OTHER] Aimed at 0 Degrees

[LAMPCAT] N/A, 19mm LES

[LAMP] N/A, 83 CRI

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available CCT's

[OTHER] This report prepared by Spectrum Lighting, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1238
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.66
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_7 ~ C1216XT-13LXXK-WDEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9299	10986	10339
55	1690	1793	1707
65	1884	1958	2106
75	2307	2476	2518
85	4477	3792	4124

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	2067.094	2067.094	2067.094	2067.094	2067.094	2067.094	2067.094	2067.094	2067.094	2067.094
5	2002.596	2029.159	2018.526	2021.023	1986.504	1937.907	1941.466	1893.797	1896.554	1858.200
10	1738.653	1783.613	1761.303	1771.651	1712.505	1638.499	1633.136	1572.102	1569.520	1519.363
15	1389.824	1443.106	1416.514	1430.857	1368.488	1294.408	1287.788	1228.354	1220.902	1176.816
20	1029.360	1083.039	1063.031	1084.544	1034.679	973.872	970.263	916.233	909.620	866.489
25	726.772	770.339	758.295	784.756	749.328	703.354	701.457	657.379	652.810	619.704
30	533.402	558.044	554.748	571.212	550.729	520.968	516.299	494.203	488.671	473.023
35	430.770	441.050	446.328	451.286	440.882	419.186	407.823	394.514	381.301	366.695
40	283.703	317.458	316.205	325.545	297.430	256.815	261.535	214.133	216.036	174.951
45	93.824	127.157	110.839	137.072	104.311	79.326	76.930	57.651	53.051	43.142
50	20.405	20.376	24.864	24.071	22.336	18.296	17.069	15.671	16.579	15.848
55	13.833	13.576	14.676	14.489	13.970	15.266	15.971	15.340	15.691	14.640
60	13.013	12.201	12.836	13.264	13.382	14.869	15.409	15.718	15.239	14.737
65	11.358	11.549	11.808	11.345	12.699	14.656	14.672	15.446	15.291	14.866
70	8.761	10.287	10.513	9.934	10.631	14.962	14.536	14.473	14.483	13.248
75	8.518	8.680	9.144	9.777	9.297	14.386	14.779	13.999	14.672	14.323
80	7.243	8.469	7.649	7.686	8.212	13.831	14.035	14.487	15.945	14.754
85	5.567	5.177	4.716	5.960	5.129	11.872	12.152	10.951	11.687	10.982
90	0.928	0.473	1.032	0.511	1.257	7.147	4.349	6.714	4.135	7.604
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	2067.094	2067.094	2067.094	2067.094	2067.094	2067.094	2067.094
5	1877.147	1853.707	1899.350	1952.328	1960.080	1994.751	2002.596
10	1539.373	1514.888	1573.471	1653.541	1664.132	1727.488	1738.653
15	1186.059	1168.411	1219.507	1297.688	1308.195	1377.346	1389.824
20	879.501	854.805	897.954	960.604	962.010	1021.786	1029.360
25	624.038	609.425	637.058	680.863	680.277	722.498	726.772
30	471.833	466.675	479.661	504.121	505.123	529.555	533.402
35	364.996	356.045	372.141	398.176	410.652	420.070	430.770
40	190.711	167.711	203.875	242.822	241.364	280.893	283.703
45	37.438	40.761	47.889	68.785	66.286	95.721	93.824

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50	16.427	15.588	16.111	14.702	17.470	16.159	20.405
55	14.636	14.476	15.058	13.641	13.776	12.804	13.833
60	14.371	14.229	14.065	12.011	12.004	13.048	13.013
65	14.116	13.339	13.144	10.020	10.522	12.020	11.358
70	13.560	12.603	13.280	8.695	9.050	9.479	8.761
75	13.923	13.808	13.616	8.208	7.769	9.179	8.518
80	14.337	14.475	14.100	6.982	7.747	6.440	7.243
85	10.472	11.807	11.216	4.113	4.087	5.040	5.567
90	4.825	7.785	9.078	0.440	0.687	0.494	0.928
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	538.55	N.A.	43.50
0-30	865.45	N.A.	69.90
0-40	1110.35	N.A.	89.70
0-60	1203.89	N.A.	97.20
0-80	1228.75	N.A.	99.20
0-90	1237.2	N.A.	99.90
10-90	1060.68	N.A.	85.70
20-40	571.80	N.A.	46.20
20-50	651.69	N.A.	52.60
40-70	106.29	N.A.	8.60
60-80	24.86	N.A.	2.00
70-80	12.11	N.A.	1.00
80-90	8.44	N.A.	0.70
90-110	0.98	N.A.	0.10
90-120	0.98	N.A.	0.10
90-130	0.98	N.A.	0.10
90-150	0.98	N.A.	0.10
90-180	0.98	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1238.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	176.52
10-20	362.04
20-30	326.90
30-40	244.90
40-50	79.89
50-60	13.65
60-70	12.75
70-80	12.11
80-90	8.44
90-100	0.98
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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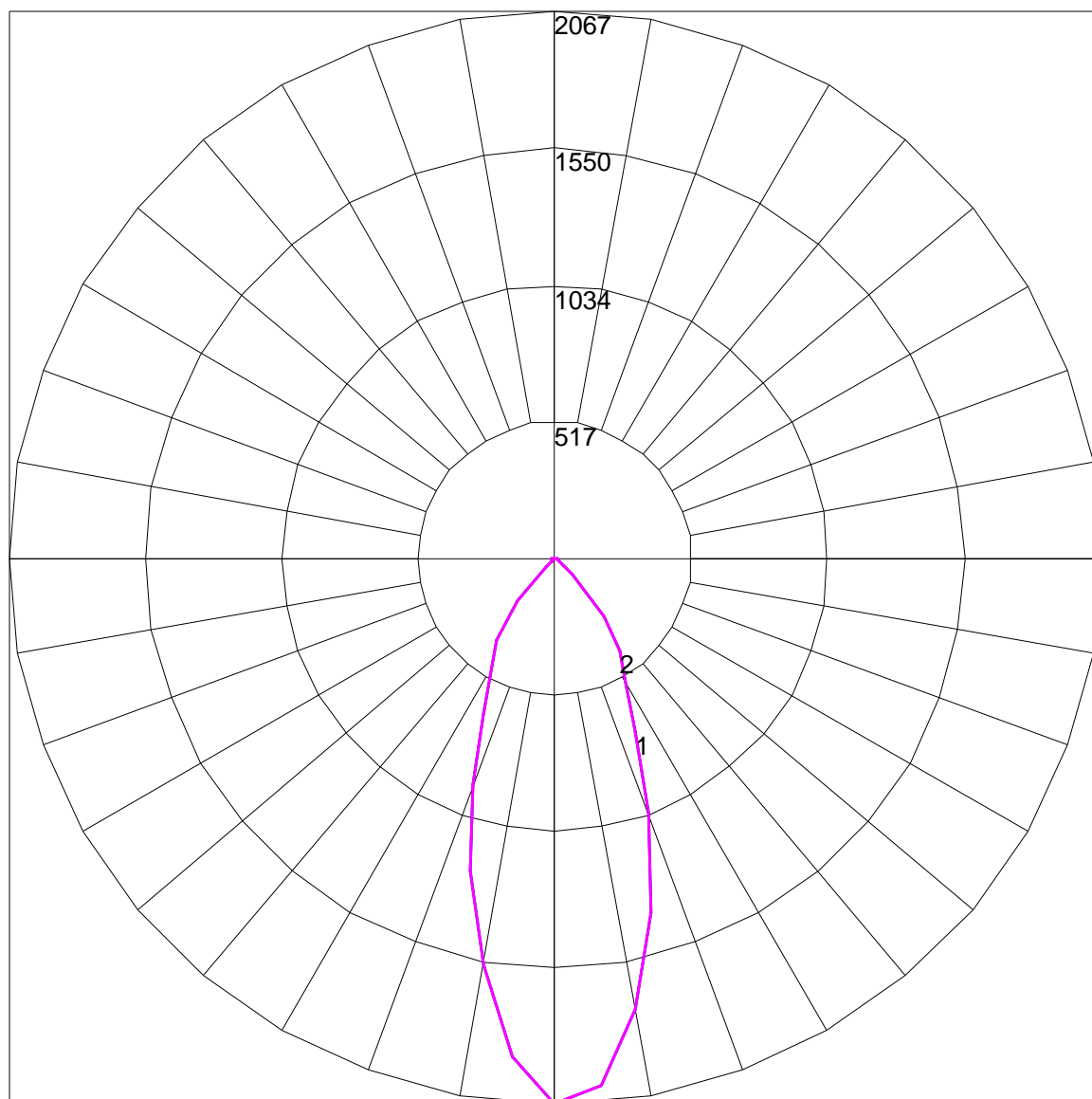
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	108	102	98	95	105	101	97	94	98	94	92	94	92	90	92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	78	74	81	77	73	80	75	72	78	74	72	70
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	57	55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

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POLAR GRAPH



Maximum Candela = 2067.094 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)